

Automatic garage door opening system

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19BCY10038

CODE:-

```
#include<Servo.h>
Servo s;
void setup()
{
  Serial.begin(9600);
  pinMode(7, OUTPUT); // set arduino pin 7 to output mode
  pinMode(5, INPUT); // set arduino pin 5 to input mode
  s.attach(2);        // attaches the servo on pin 2 to the servo object
  s.write(0);
}

void loop()
{
  digitalWrite(7, HIGH);
  delayMicroseconds(10);
  digitalWrite(7, LOW); // generate 10-microsecond pulse to TRIG pin

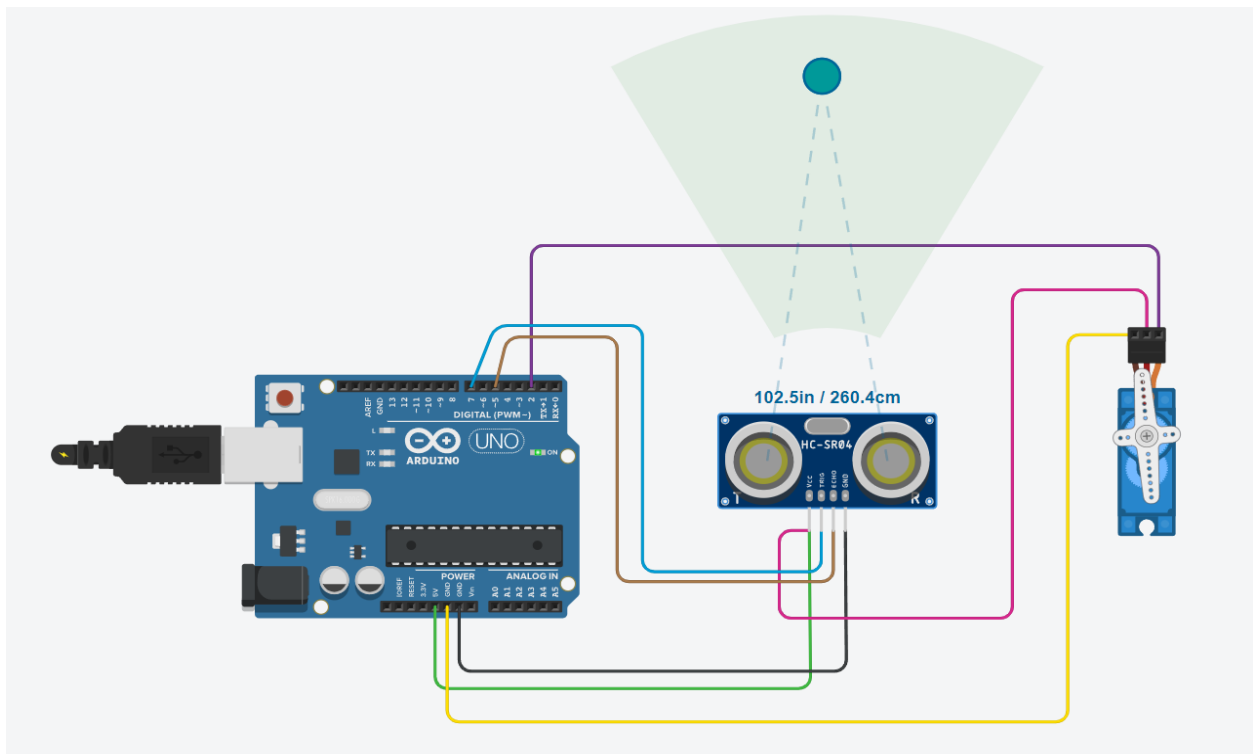
  float dur = pulseIn(5, HIGH);
  float dis = (dur*0.0343)/2; // calculate the distance

  if(dis <200)
    s.write(90); // rotate servo motor to 90 degree to open garage door

  delay(2000);
  s.write(0); // rotate servo motor to 0 degree to close garage door

  Serial.print("Distance in cm: ");
  Serial.println(dis);
}
```

Door Close:-



Door Open:-

